

Recombinant Human MSR1 protein, His-tagged

Cat. No. MSR1-53H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MSR1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	MSR1, as known as macrophage scavenger receptor types I and II isoform type 1, is single-pass type II membrane protein. Scavenger receptors are a group of membrane receptors that recognize and internalize modified low density lipoproteins (LDLs) and participate in the removal of many foreign substances and waste materials in the living body. Scavenger receptors are categorized into three classes, and class A mainly expressed in macrophage includes three isoforms derived by alternative splicing. This protein, has been suggested to play important roles in macrophage growth, cell adhesion, osteoclast differentiation, and as well as intracellular signaling.
Form	In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	42.4kDa (384aa)40-57KDa (SDS-PAGE under reducing conditions.)
AA Sequence	ADPKWETKNC SVSSTNANDI TQSLTGKGND SEEEMRFQEV FMEHMSNMEK RIQHILDMEA NLMDTEHFQN FSMTTDQRFN DILLQLSTLF SSVQGHGNAI DEISKSLISL NTTLLDLQLN IENLNGKIQE NTFKQQEEIS KLEERVYNVS AEIMAMKEEQ VHLEQEIKGE VKVLNNITND LRLKDWEHSQ TLRNITLIQG PPGPPGEKGD RGPTGESGPR GFPGPPIGPPG LKGDRGAIGF PGSRGLPGYA

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GRPGNSGPKG QKGEKSGSNT LTPFTKVRLV GGSGPHEGRV EILHSGQWGT
ICDDRWEVRV GQVVCRLGY PGVQAVHKAA HFGQGTGPIW LNEVFCFGRE
SSIEECKIRQ WGTRACSHSE DAGVTCTLHH HHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >95% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [MSR1 macrophage scavenger receptor 1 \[Homo sapiens \]](#)

Official Symbol [MSR1](#)

Synonyms MSR1; CD204; SCARA1; SRA; SR-A; phSR1; phSR2;

Gene ID [4481](#)

mRNA Refseq [NM_138716](#)

Protein Refseq [NP_619730](#)

MIM [153622](#)

UniProt ID [P21757](#)

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Chromosome Location	8p22
Pathway	Phagosome, organism-specific biosystem; Phagosome, conserved biosystem;
Function	low-density lipoprotein particle binding; protein binding; receptor activity; scavenger receptor activity;

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